

# Marcel Hofmann

<https://github.com/marcelhfm>

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## EDUCATION

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- **University of applied sciences Munich** München, Germany  
*Bachelor of Science in Business Informatics; current GPA: 1.4*  
2020 – 2024
- **University of Halmstad** Halmstad, Sweden  
*ERASMUS Semester Abroad*  
2023
- **Josef Effner-Gymnasium Dachau** Dachau, Germany  
*A-Levels (Abitur); GPA: 1.8*  
2012-2020

## EXPERIENCE

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- **Codestryke** München, Germany  
*Full Stack Engineer*  
2022 - present
  - **Lead Backend Developer for an insurance based IoT-Platform:** Responsibility for highly scalable IoT data ingestion, preprocessing and analysis. Developing a rule engine for real-time event generation and alerting. Automated E2E and load testing using Azure DevOps Pipelines. Deployment on Azure using k8s and Azure Functions. (MQTT, REST, GraphQL, Node, Typescript)
  - **Lead Full Stack Developer for an IoT-Monitoring Dashboard:** Real-time monitoring and timeseries data analysis. Deployment on Mindsphere (Siemens IoT-Platform) and AWS using Lambda. (GraphQL, REST, Node, Typescript, React)
- **Siemens Health Insurance** München, Germany  
*Working Student Project Management*  
2021 - 2022
  - **Project Management App and Web:** UI and UX research. Testing. Coordination of projects.

## PROJECTS

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- **Raspberry Pi Pico W - CO2 Sensor (ongoing):** Real-Time Data collection using a CO2 sensor and displaying it with an OLED-Display. Developed in C using FreeRTOS. (I2C, MQTT)
- **PIOS - Simple OS for the Raspberry Pi 4b (ongoing):** Simple Operating System from scratch. Implementing user interfaces with UART and bluetooth. (C, ASM)
- **TCP / UDP Chat Messenger:** University Project. Scalable End-2-End communication with TCP/IP or UDP/IP. (Java)
- **FOREX trading bot:** Automated python trading bot. (Python)

## PROGRAMMING SKILLS

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- **Languages:** Typescript, Javascript, C, C++, C#, Java, Python
- **Technologies:** AWS, Azure, Node, React, Kubernetes